BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work: Attur Ward:3 Fixing of Open Gym equipment in park near Ambabhavani Temple

Job Number 003-18-000053 Estimate cost Rs: 3400000.00

Sl No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	KSRB 2-1.1:Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manualluy (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled and after breaking of clods and neatly dressed as per specification Specification No. KBS 2.1(a)/2.3.1 (P-5 It,2.1)									
	ground		1	15.00	9.40	0.20	28.20			
	for kerb		2	15.00	0.20	0.15	0.90			
			2	9.00	0.20	0.15	0.54			
						Total	29.64	184.73	Cum	5475.00
	Basic Rate	157.00								
	Add 11% AD-HOC	17.27								
	A.W. @ 6%	10.46								
	Total Rate	184.73								
2	KSRRB M400-17:Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the materail with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406 (P-158, It.20.18)									
			1	14.60	9.00	0.15	19.71			
						Total	19.71	1962.57	Cum	38682.00
	Basic Rate	1668.00								
	Add 11% AD-HOC	183.48								
	A.W. @ 6%	111.09								
	Total Rate	1962.57								

S No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 Kgs, with 20mm and down size graded granite metal coarse aggregtes @ 0.69cum and line aggregates @ 0.459 cum,machine mixed, concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.2 (P-12, It.4.6)									
	kerb below		2	15.00	0.20	0.15	0.90			
			2	9.00	0.20	0.15	0.54			
			1	14.60	9.00	0.15	19.71			
						Total	21.15	6401.88	Cum	135400.00
	Basic Rate	5441.00								
	Add 11% AD-HOC	598.51								
	A.W. @ 6%	362.37								
	Total Rate	6401.88								
4	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification (P-109, It.14.62).									
			1	14.60	9.00		131.40			
						Total	131.40	1276.61	Sqm	167747.00
	Basic Rate	1085.00								
	Add 11% AD-HOC	119.35								
	A.W. @ 6%	72.26								
	Total Rate	1276.61								
5	Providing and fixing pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastrering and finishing cutting etc., complete. 450 x 150 x 500mm (P-25, It,5.29.2)									
	kerb		2	15.00			30.00			
			2	9.00			18.00			
						Total	48.00			
				48.00	./0.45		107	415.34	Nos	44303.00
	Basic Rate	353.00								
	Add 11% AD-HOC	38.83								
	A.W. @ 6%	23.51								

S No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Total Rate	415.34								
6	Providing and applying ready mix Priming coat over concrete/masonary/asbestos cement sheet/plastered surfaces brushing to give an even shade after preparing the surface after througly cleaning oil dirt, dust other foreign matter and sand papering including cost of all materials, labour complete as per specifications. (Page No.121, Item.No.15.80)									
			2	15.00		0.45	13.50			
			2	9.00		0.45	8.10			
						Total	21.60	30.59	Sqm	661.00
	Basic Rate	26.00								
	Add 11% AD-HOC	2.86								
	A.W. @ 6%	1.73								
	Total Rate	30.59								
7	Providing and applying floor painting with ready mix paint in two coats (excluding primer coat) on new concrete/asbestos cement sheet/plastered surfaces brushing to give an even shade after preparing the surface after througly cleaning oil dirt, dust other foreign matter and sand papering including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No.121, Item.No.15.83)									
		Qty same as item no.6					21.60			
						Total	21.60	58.83	Sqm	1271.00
	Basic Rate	50.00								
	Add 11% AD-HOC	5.50								
	A.W. @ 6%	3.33								
	Total Rate	58.83								

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(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
8	Supply & Fixing of bicycle.metal : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 910 x 655x1270 mm. Weight:29.5.5 kg. Safety Area: 3310x3000mm Capacity 1 Person (Approved RAte)									
						Total	2.00	125000.00	Nos	250000.00
9	Supply & Fixing of Seated Chest Press : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering partY. and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 1955 x 733x2058 mm. Weight: 86.6 kg. Safety Area: 5545x4470mm Capacity 2 Persons (Approved RAte)									
						Total	1.00	230000.00	Nos	230000.00

Sl. No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
10	Supply & Fixing Self Weighted Rower: All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. RColour RAL 5019 blue and RAL beige rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering partY. and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 1390 x 805x1100 mm. Weight: 42.4 kg. Safety Area: 3790x3205mm Capacity 1 Person (Approved RAte)									
						Total	2.00	165000.00	Nos	330000.00
11	Supply & Fixing of HD setup station Metal : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering partY. and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 1955 x 733x2058 mm. Weight: 86.6 kg. Safety Area: 5545x4470mm Capacity 2									
						Total	2.00	125000.00	Nos	250000.00

Sl No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
12	Supply & Fixing of HD squat pushing Metal : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering partY. and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 1955 x 733x2058 mm. Weight: 86.6 kg. Safety Area: 5545x4470mm Capacity 2 Persons (Approved RAte)									
						Total	2.00	215000.00	Nos	430000.00
13	Supply & Fixing of HD Mini Ski : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering partY. and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 1955 x 733x2058 mm. Weight: 86.6 kg. Safety Area: 5545x4470mm Capacity 2 Persons (Approved RAte)									
						Total	2.00	116000.00	Nos	232000.00

S No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
14	Supply & Fixing of HD Waist Twister Metal: All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 1460 x 1310x1150 mm. Weight: 39.1 kg. Safety Area: 4360x4510mm Capacity 3 Persons (Approved RAte)									
						Total	2.00	130000.00	Nos	260000.00
15	Supply & Fixing of Tai Chi Spinners: All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 1120 x 1150x1620 mm. Weight:39 kg. Safety Area: 3520x3550mm Capacity 3 Person (Approved RAte)									
						Total	1.00	115000.00	Nos	115000.00

S No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
16	Supply & Fixing of Rider Metal: All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 910 x 655x1270 mm. Weight:29.5.5 kg. Safety Area: 3310x3000mm Capacity 1 Person (Approved RAte)									
						Total	2.00	90000.00	Nos	180000.00
17	Supply & Fixing of Elliptical Cross Trainer: All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 1267 x 582x1764 mm. Weight: 43.5 kg. Safety Area: 4322x3632mm Capacity 1 Person (Approved RAte)									
						Total	2.00	140000.00	Nos	280000.00

S.No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
18	Supply & Fixing of Arm & pedal bike.metal : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MlG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding points prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 -120 microns. All metai parts are tested in our salt spray machine that uses at 5% NaCL solution in accordance to 1SO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings- Scope of delivery. I completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safery : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safeTy certificates. Size_L xWxH): 910 x 655x1270 mm. Weight:29.5.5 kg. Safety Area: 3310x3000mm Capacity 1 Person (Approved RAte)									
						Total	2.00	170000.00	Nos	340000.00
19	Provding and Fixing B.S.Slab granite benches as per design and drawing , including material cost, transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materials, and as per direction of Engineer in charge of work									
	Data Rate	10500.00								
			10.00				10.00			
						Total	10.00	10500.00	each	105000.00
20	Conveying the excavated earth (lead charges) to a with lead of 10kms with all lead and lift. including loading and unloading charges etc., complete as per direction of Engineer in charge									
	Cost of haulage BR = Rs.2.50 T.Km. (P-134, it;17.4)									
	Loading and unloading BR=Rs.68.00 (P-134, it;17.1)									
	For 10kms = 2.50*1.28*10Km =Rs.32 (P-139)									
	Qty. vide item No.1						29.64			
							29.64	111.00	Cum	3290.00
	loading and unloading	68.00								
	lead of 10kms	32.00								
	sub total	100.00								

No	Description of Items		No	L	B	D	Qty	Rate	Unit	Amount
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	Add 11% AD-HOC	11.00								
	Total Rate	111.00								
	Miscellaneous & Rounding off									1171.00
								Totalm Rs:		3400000.00

CERTIFICATE:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2016-17

Assistant Engineer
Project Yelahanka

Assistant Executive Engineer
Project Yelahanka
B B M P

Executive Engineer
Project Division
B B M P
24/2/18

Administrative Approval
Accorded For RS. 34.00 Lakhs
Head of A/C P-3258
CER NO :174 Dt:26/2/18

E.E. (Project) 26/2/18

Technical Sanction
Accorded For RS Thirty four Lakhs only
Head of A/C P32.SD
CER NO :TS/7981/17-18 Dt:26.02.18

TA CE (YNK)